53-23-55

1 7000 application of:

Stephen Melvin Enrique Musoll

Mario D. Nemirovsky Nandakumar Sampath

Serial No.:

09/900393

Filed:

07/05/01

Docket:

MIPS.0175-00-US

For:

METHOD AND APPARATUS FOR NON-SPECULATIVE PRE-FETCH

OPERATION IN DATA PACKET PROCESSING

INFORMATION DISCLOSURE STATEMENT SUBMITTED UNDER 37 CFR 1.97(D) AND 1.97 (E)(2)

Attached hereto is Form PTO-1449 listing documents believed relevant to the subject application. It is respectfully requested that the Examiner review the information disclosed herein in detail, independently evaluate each item carefully in the consideration of the pending claims and return an initialed copy of each form to the undersigned.

This disclosure statement should not be construed as a representation that a search has been made, that no other material information as defined in 37 C.F.R. § 1.56(a) exists, or as an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b) or is available as a reference under 35 U.S.C. § 102 et seq. Applicant reserves the right to swear behind or otherwise disprove the alleged "prior" nature of any art cited should the facts support and the situation warrant such an action.

It is believed that this disclosure complies with the requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98, and the Manual of Patent Examining Procedures § 609. If for some reason the examiner considers otherwise, it is respectfully requested that the undersigned be called so that any deficiencies can be remedied.

A copy of each document is enclosed. Some of the documents may have markings thereon. No significance is intended to be attached to the markings.

No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of the information disclosure statement. The information cited in the information disclosure statement was cited by the United States Patent Office in one or more applications that are related to the present application.

Also attached hereto/is/ a check in the amount of \$180.00 for the fee set forth in § 1.17(p).

Respectfully submitted,

03/24/2005 HTECKLU1 00000008 09900393

01 FC:1806

180.00 gp

James Whyterman Huffman Law Group, Inc. Registration No. 35,549

1832 N. Cascade Ave. Colorado Springs, CO 80907 719.475.7103 719.623.0141 fax jim@huffmanlaw.net

Date: 3-14.05

"EXPRESS MAIL" mailing label number <u>E000424005</u> US

Date of Deposit <u>3.22-05</u>. I hereby certify that this paper is being deposited with the U.S. Postal Service Express Mail Post Office to Addressee Service under 37 C.F.R. §1.10 on the date shown above and is addressed to the U.S. Commissioner of Patents and Trademarks. Washington, D.C. 20231.

Patents and Trademarks, Washington, D.C. 20231.

By:

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

titute for form 1449A/PTO

Sheet

1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary

3

of

Complete if Known				
Application Number	09/900393			
Filing Date	07/05/01			
First Named Inventor	Stephen Melvin			
	Enrique Musoll			
	Mario D. Nemirovsky Nandakumar Sampath			
Group Art Unit	Hassan Kizou			
Examiner Name	2662			
Attorney Docket Number	MIPS.0175-00-US			

Examiner Initials	Cite No.1	U.S. Patent Document		Name of Patentee or Applicant	Date of Publication of	B O-t 1/ 1/ = :		
		Number	Kind Code 2	of Cited Document	Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	AA	4200927		Huges et al	04/29/1980			
	AB	5708814		Short et al	01/13/1998			
	AC	5724565		Dubey et al	I 03/03/1998			
	AD	5784649		Begur et al	07/21/1998			
	AE	6460105		Jones et al	10/1/2002			
	AF	6523109		Stephan G. Meier	02/18/2003			
	AG	6529515		Raz et al	03/04/2003			
	АН	6640248		Jacob W. Jorgensen	10/28/2003			
	Αl	6625808		David R. Tarditi	09/23/2003			
	AJ	6738371		Lawrence Ayers	05/18/2004			
	AK	6738378		Tuck, III et al	05/18/2004			
	AL	6813268		Kalkunte et al	11/02/2004			
	AM	6535905		Kalafatis et al	03/18/2003			
	AN	20010004755		Levy et al	06/21/2001			
	AO	20010005253		Hiroshi Komatsu	06/28/2001			
	AP	20020083173		Musoll et al	06/27/2002			
	AQ	09/608750		Nemirovsky et al	Not published			

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.1	Foreign Patent Document		Name of Patentee or Applicant	Date of Publication of	Page California Linea Where Balancet
		Number ⁴	Kind Code ⁵	of Cited Document	Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	BA	WO03005645				
		A1		Sampath et al	06/25/02	

Examiner Signature	Date Considered	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST .3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

stitute for form 1449A/PTO Complete if Known **Application Number** 09/900393 INFORMATION DISCLOSURE Filing Date 07/05/01 STATEMENT BY APPLICANT **First Named Inventor** Stephen Melvin **Enrique Musoll** (use as many sheets as necessary Mario D. Nemirovsky Nandakumar Sampath Group Art Unit 2662 Examiner Name Hasan Kizou 3 Sheet of 3 Attorney Docket Number MIPS.0175-00-US

	OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS						
Examiner Cite Initials* No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.					
	ca	DIEFENDORFF, KEITH ET AL. "AltiVec Extension to PowerPC Accelerates Media Processing." IEEE Journal of Microelectronics. Vol. 20, No. 2 (2000): pp. 85-95					
	CR	GRUNEWALD, WINFRIED ET AL. "Towards Extremely Fast Context Switching in a Block Multithreaded Processor." Proceedings of EUROMICRO 22, 1996. pp. 592-599					
CS BRADFORD, JEFFREY ET AL. "Efficient Synchronization for Multithreaded Processors." Workshop Multithreaded Execution, Architecture, and Compilation. Jan-Feb 1998. pp. 1-4							
CT PAI, VIJAY ET AL. "An Evaluation of Memory Consistency Models for Shared-Memory Systems Processors." <i>Proceedings of ASPLOS-VII</i> , Oct. 1996: pp. 12-23, ACM, Inc.							
	CU	YOAZ ET AL. "Speculation Techniques for Improving Load Related Instruction Scheduling." 1999. Pages 42-53, IEEE.					
	cv	KESSLER, R. E. "The Alpha 21264 Microprocessor: Out-of-Order Execution at 600 MHz." August 1998.					
	cw	DONALSON ET AL. "DISC: Dynamic Instruction Stream Computer, An Evaluation of Performance." 26 th Hawaii Conference on Systems Sciences. Vol. 1. 1993. Pages 448-456.					
	сх	NEMIROVSKY ET AL. "DISC: Dynamic Instruction Stream Computer." ACM. 1991. Pages 163-171					
			_				
			_				
Examiner Signature Date Considered							

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ubstitute for form 1449A/PTO Complete if Known **Application Number** 09/900393 INFORMATION DISCLOSURE **Filing Date** 07/05/01 STATEMENT BY APPLICANT **First Named Inventor** Stephen Melvin **Enrique Musoll** (use as many sheets as necessary Mario D. Nemirovsky Nandakumar Sampath Group Art Unit 2662 **Examiner Name** Hasan Kizou 2 3 MIPS.0175-00-US Sheet of Attorney Docket Number

		OTHER PRIOR ART-NON PATER	NT LITERAT	URE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, ser symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
	СА	MELVIN ET AL, "Extended Instruction Set for a P Document #496559, USPTO	Packet Processing /	Applications," July 5, 2001, Disclosure				
	СВ	MUSOLL ET AL, "Hardware Algorithm for Allocat April 3, 2001, Disclosure Document #491557, US		ng Consecutive Blocks of Memory,"				
	СС	MUSOLL ET AL, "Mechanism to Overflow Packe Fit into a Hardware Controlled Memeory,", July 3,	ts to a Software Co	introlled Memory When They Do Not Document #496391, USPTO				
	CD	MUSOLL ET AL., "Mechanism for Allowing a Lim Packet to a Different Memeory Location," April 16	ited Packet Head a	nd/or Tail Growth Without Moving the				
	CE	MUSOLL ET AL., "Mechanism to Activate a Cont Processing Core,: April 16, 2001, Disclosure Doc	text When No Strea	m is Running in a Multi-Streaming				
	CF	MUSOLL, ENRIQUE, "Functional Validation of a Packet Management Unit," May 18, 2001, Disclosure Document #494011, USPTO						
	CG	YAMAMOTO, WAYNE. An Analysis of Multistrea California Santa Barbara Dissertation. Decembe						
	СН	YAMAMOTO et al. "Increasing Superscalar Perficient Compilation Techniques (PACT '95). 1995	ormance Through N					
	CI	The PowerPC Architecture: A Specification for a New Family of RISC Processors. 2 nd Ed. May 1994. pp. 70-72. Morgan Kaufmann. San Francisco, US.						
CJ MC68020 32-Bit Microprocessor User's Manual. 3 rd Ed 1989. Hall, NJ, US.				p. 3-125, 3-126, and 3-127. Prentice				
	СК	POTEL, M. J. "Real-Time Playback in Animation Systems." <i>Proceedings of the 4th Annual Conference on Computer Graphics and Interactive Techniques</i> . 1977. pp. 72-77. San Jose, CA, US.						
	CL	ARM Architecture Reference Manual. 1996. pp. 3-41, 3-42, 3-43, 3-67, and 3-68. Prentice Hall, NJ, US.						
	СМ	ESA/390 Principles of Operation. IBM Online Publications Center Reference Number SA22-7201-08. Table of Contents and paras. 7.5.31 and 7.5.70. IBM Corporation. Boulder, CO, US.						
	CN	MC88110 Second Generation RISC Microprocessor User's Manual. 1991. pp. 10-66, 10-67, and 10-71. Motorola, Inc.						
	со	DIEFENDORFF, KEITH ET AL. "Organization of the Motorola 88110 Superscalar RISC Microprocessor." IEEE Journal of Microelectronics. April 1992. pp. 40-63. Vol. 12, No. 2. IEEE. New York, NY, US.						
	СР	KANE, GERRY. PA-RISC 2.0 Architecture. 1996, pp. 7-106 and 7-107. Prentice Hall. NJ, US.						
Examine Signature			Date Considered					

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.